

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
21 April 2005 (21.04.2005)

PCT

(10) International Publication Number  
**WO 2005/034983 A1**

(51) International Patent Classification<sup>7</sup>: **A61K 38/16, 39/10, A61P 37/02** (74) Agents: O'BRIEN, John, A. et al.; c/o John A. O'Brien & Associates, Third Floor, Duncairn House, 14 Carysfort Avenue, Blackrock, County Dublin (IE).

(21) International Application Number:

PCT/IE2004/000139

(22) International Filing Date: 14 October 2004 (14.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
2003/0761 14 October 2003 (14.10.2003) IE

(71) Applicant (for all designated States except US): THE PROVOST, FELLOWS AND SCHOLARS OF THE COLLEGE OF THE HOLY AND UNDIVIDED TRINITY OF QUEEN ELIZABETH, NEAR DUBLIN [IE/IE]; College Green, Dublin 2 (IE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): MILLS, Kingston, Henry, Gordon [IE/IE]; 30 Brighton Road, Rathgar, Dublin 6 (IE). MCGUIRK, Peter [IE/IE]; 15 Linnetfields Park, Castaheany, Clonee, Dublin 15 (IE). KEOGH, Brian [IE/IE]; 76 Cherrywood Villas, Clondalkin, Dublin 22 (IE).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2005/034983 A1

(54) Title: FILAMENTOUS HAEMAGGLUTININ IN THE TREATMENT AND/OR PROPHYLAXIS OF IMMUNE-MEDIATED DISORDERS

(57) Abstract: Filamentous haemagglutinin (FHA) or a derivative or mutant or fragment or variant or peptide thereof is useful in the prophylaxis and/or treatment of an immune-mediated disorder and/or an autoimmune disease. The FHA may include self or foreign antigens or peptides thereof.